

Determination of stress-strain state of geometrically nonlinear sandwich plate

Badriev I., Banderov V., Makarov M., Paimushin V.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2015 I. B. Badriev, V. V. Banderov, M. V. Makarov and V. N. Paimushin. By using the two-layer iterative method we obtain the basic characteristics of the equilibrium position of sandwich plate with a transversely soft filler in geometrical nonlinear one-dimensional statement. To solving problem we previously construct its finite-difference approximation Analysis of the results of numerical experiments is performed. Obtained data testify to the effectiveness of the proposed method.

<http://dx.doi.org/10.12988/ams.2015.54354>

Keywords

Geometric nonlinearity, Iterative method, Numerical experiment, Sandwich plate, Transversely soft filler